DOCUMENT RESUME

ED 229 046 IR 050 223

AUTHOR Bryant, Barton B.; Rizzo, Joseph F.
TITLE Finding Biomedical Information. A Learning Module for Medical Technology Students on the Basics of the Use of Medical Literature in the Shiffman Medical Library, Wayne State University, Detroit, Michigan.
PUB DATE Jul 82
NOTE 27p.
PUB TYPE Guides - Classroom Use - Materials (For Learner) (051) -- Tests/Evaluation Instruments (160)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS Card Catalogs; College Libraries; Higher Education; Indexes; *Information Retrieval; Library Guides; *Library Instruction; *Library Materials; *Library Skills; *Medical Libraries; Pretests Posttests; Search Strategies; Subject Index Terms; Undergraduate Students; Workbooks
IDENTIFIERS *Medical Technology

ABSTRACT

This self-instructional library workbook was used in a series of workshops--sponsored by the Medical Technology Department in Wayne State University's College of Pharmacy and Allied Health Professions--in order to reduce attrition by increasing the probability of success for academically high-risk students in the professional medical technology curriculum. Designed to be used in conjunction with lectures and supervised exercises in the library, the workbook covers: (1) the physical arrangement of Wayne State University's Shiffman Medical Library; (2) the process of locating materials in the library; (3) use of the card catalog; (4) the organization of Medical Subject Headings (MeSH); (5) problem-solving with monographs and jounals; (6) use of the Union List of Selected Serials of Michigan (ULOSSOM); and (7) use of Index Medicus. Also provided are a pretest, a posttest, and answers to quick quizzes on each section. (Author/ESR)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED229046

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

☑ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

Finding Biomedical Information

A Learning Module for Medical Technology Students on the Basics of the Use of Medical Literature in the Shiffman Medical Library Wayne State University Detroit, Michigan

by
Barton B. Bryant, M.L.S.
and
Joseph F. Rizzo, MS, MT(ASCP), CLS

July 1982

IR050223

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Barton B. Bryant

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

INTRODUCTION

This booklet is a self-study learning module in the use of the medical literature with particular reference to the Vera Parshall Shiffman Medical Library at Wayne State University, Detroit, Michigan. The booklet was designed to be used in conjunction with lectures and supervised exercises in the library to make further application of the skills learned in this module.

The workbook format has been selected as the most appropriate vehicle for conveying some very basic information about the library. Using the library is not an independent body of theoretical knowledge; it is a skill in which you will gain proficiency solely by experience. This is the reason that it is vital for you to work the exercises in this module and to attempt to thoroughly understand each one. The quick quizzes after each section will not be graded; answers are in the back of the book.

Feel free to ask questions of the reference librarian or to discuss problems with your classmates after you have exhausted your ability to solve a particular problem.

You will gain the greatest advantage if you work through the workbook in the Shiffman Library.

Upon completion of this module, the student will be able to use effectively the Shiffman Medical Library as an academic resource.

Section 1

The Geography of Shiffman Library

Upon completion of this section, the student will be able to:

1. Locate the various areas of the medical library, and
2. Define the function of the reference librarian.

Welcome to the Vera Parshall Shiffman Medical Library! At the end of this workbook is a detailed description and map of the library. Please study it carefully to familiarize yourself with the geography of the library.

Note that all books from 1960 to present are on the main floor while all journals from 1970 to the present are on the second floor. Earlier volumes are kept in the basement. Bound journals from 1970 to the present are arranged alphabetically by journal title in the main section of the second floor. More recent issues of journals which have not yet been bound are shelved in the northwest corner of the second floor.

The reference desk is staffed from 9 to 5 on weekdays by a reference librarian. The reference librarian is on duty to help you as you try to find information. The librarian will not know as much about your topic as you may know, but the librarian does know how to find information. Be sure to ask if you need help, not only in these exercises, but also throughout your student life and career.

QUICK QUIZ #1

On what floor are the following located? M=Main, B=Basement, 2=Second

____1. The Treatment of Burns, a book by Henry Harkins, published in 1942.

____2. The latest copy of the American Journal of Medical Technology.

____3. Index Medicus.

____4. Card Catalog.

____5. A good current textbook of biochemistry.

____6. The original journal article in the 1950's by Watson and Crick detailing the structure of DNA.

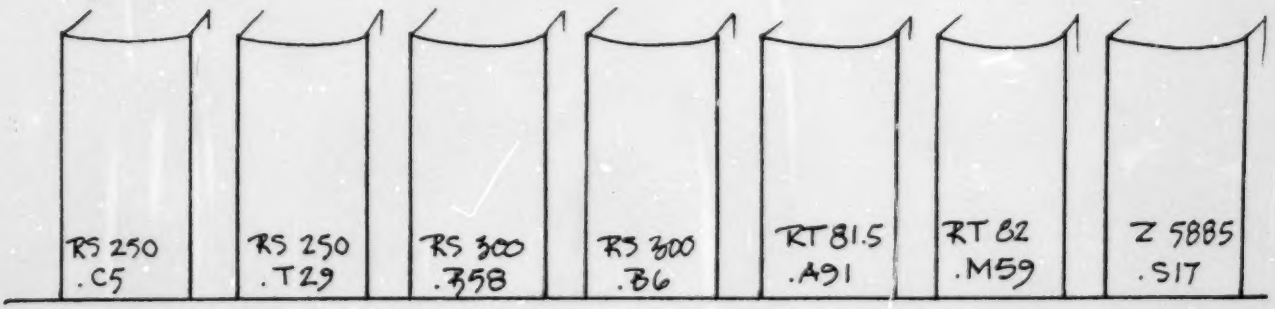
Section 2

Locating Books in the Library

Upon completion of this section, the student will be able to:

1. Identify the various components of a call number, and
2. Arrange call numbers in their proper sequence.

Books are arranged on the shelves by "call number," a combination of letters and numbers placed on the spine of the book. Books on the shelf are arranged in ascending order of letters and numbers from left to right. The illustration below shows a group of books and their proper positions on the shelf. Note that RS 300 .B58 is placed on the shelf to the left of RS 300 .B6. This is because .B58 and .B6 are arranged as if they had decimal points in front of them.



The first portion of the call number for a book is selected from the Library of Congress classification system on the basis of the subject of that book. Thus, all books on pathology will be found somewhere in RB, but books on laboratory technique in clinical pathology will be found in RB 37 and books on pathology of the blood will be found in RB 145. The rest of the call number arranges the books on a specific topic by author, title, or other attribute.

Realistically now, you will find that books are not always put back on the shelves in the proper place. So if you don't find a book exactly where it should be, scan the shelves around it before asking a librarian for help.

QUICK QUIZ #2

Put the following call numbers in order as they would appear on a library shelf from left to right, by numbering them from 1 to 7.

____RM 7 .B62 1977
____RC 121 .M36 1981
____BF 101 .C76 1979
____RC 121 .M4 1982
____QR 37 .L21 1976
____RC 1360 .M38 1980
____R 768 .U21 1980

Section 3

The Card Catalog

Upon completion of this section, the student will be able to:

1. Differentiate between author-title and subject sections of the card catalog, and
2. Differentiate between the pre-1980 and post-1980 catalogs.

Just as the index in the back of a book helps you locate information in that book on various topics, so the card catalog helps you locate information in the library if you know one of three things: the author, the title, or the subject of a book. The card catalog also contains information on the titles of journals owned by the library, but it tells absolutely nothing about the individual articles in those journals; for information about the articles in journals, you must consult a periodical index. Three types of catalog cards provide this information: author cards, title cards, and subject cards. In Shiffman Library, author and title cards are filed in one alphabetical arrangement (the author-title catalog) and subject cards in another (the subject catalog).

Also the author-title catalog is split into two alphabetical arrangements: the pre-1980 catalog and the post-1980 catalog. This is because in 1981 libraries made major changes in the rules they follow to catalog books. So you would not be confused by these changes, the old catalog was closed, and cards for all books cataloged since January 1981 are filed in the post-1980 catalog.

QUICK QUIZ #3

Indicate the appropriate place to look in the Shiffman card catalog to find a book if you have the given information.

1 - Subject Catalog
2 - Pre-1980 Author-Title Catalog
3 - Post-1980 Author-Title Catalog

____1. A book by Kenneth K. Wu that was published this past April.
____2. A book on medical information systems in the hospital laboratory.
____3. Ravel, Richard. Clinical Laboratory Medicine. Chicago: Year Book Medical Publishers, 1978.
____4. A book published in 1971 and added to the library in 1972 which was edited by Jerome Levine, Burtrum Schiele and Lorraine Bouthilet.
____5. An up-to-date book that will give basic information on thrombocytopenic purpura.

Section 4

The Catalog Card

Upon completion of this section, the student will be able to locate and explain the various items of information found in the catalog card.

For all books in the library there will generally be at least three types of cards in the card catalog: an author card, a title card, and one or more subject cards. Below is an author card with several important items of information highlighted:

MEDICINE
(1) RB 37 .T63 1979
(2) Todd, James Campbell, 1874-1928.
(3) Clinical diagnosis and management by laboratory methods / [edited by] John Bernard Henry. 16th ed. Philadelphia : Saunders, 1979.
(4)
(5) 2v. (xxiv, 2107, lxiii p.) : ill. ; 27 cm.
(6) At head of title: Todd-Sanford-Davidsohn.
Includes bibliographies and indexes.
(7) 1. Diagnosis, Laboratory.
2. *Diagnosis, Laboratory I. Sanford, Arthur Hawley, 1882-
II. Davidsohn, Israel, 1895-
III. Henry, John Bernard, 1928-
IV. Title

MIDW-M 30 AUG 79 4884633 EYWMat 77-92666

1) Call number

2) Author

3) Title

4) Publisher and place and date of publication.

5) This section of the card tells you how many volumes this book has (it has 2), the number of pages it has (it has 2,107), and if the book is illustrated or has any charts or graphs. This book is illustrated as indicated by the abbreviation "ill."

6) Notes - This section may include additional information about the book. In this case, the card indicates that this title has bibliographies (lists of materials that the author included because they provide further information on the topics discussed in the book).

7) Tracings section - This section lists the subject headings under which cards for this book will be filed in the subject catalog as well as names of joint authors or editors and alternate or series titles. DIAGNOSIS, LABORATORY is the subject heading for this book; when you look that up in the subject catalog, you will also find a card for this book. You will find tracings listed under Arabic numerals (1, 2, 3) in the subject catalog and those listed under Roman numerals (I,II,III) in the author-title catalog. Knowing the subject headings for a book may be of particular value if you are acquainted with one book and want to find others on the same topic. All you need to do is look up the author (or title) in the card catalog, check the tracings to see what the book's subject headings are, and look under these subject headings in the subject catalog. Also, for the computer-produced cards in the card catalog, only those subject headings with asterisks in front of them are used in the card catalog at Shiffman Library.

Below is a title card for the same book. The only difference between this and the author card is that the title is at the top of the card.

Clinical diagnosis and management by laboratory methods

MEDICINE
RB
37
.T63
1979

Todd, James Campbell, 1874-1928.
Clinical diagnosis and management by laboratory methods / [edited by] John Bernard Henry. 16th ed. Philadelphia : Saunders, 1979.
2v. (xxiv, 2107, lxiii p.) : ill. ; 27 cm.
At head of title: Todd-Sanford-Davidsohn.
Includes bibliographies and indexes.

1. Diagnosis, Laboratory.
2. *Diagnosis, Laboratory I. Sanford, Arthur Hawley, 1882-
II. Davidsohn, Israel, 1895-
III. Henry, John Bernard, 1928-
IV. Title

MIDW-M 30 AUG 79 4884633 EYWMat 77-82666

This is a subject card for the same title; here, the subject headings appear at the top of the card. In the card catalog at Shiffman Library, the subject cards do not always have the subject at the top of the card, but they are filed after a tall guide card with the subject heading printed at the top.

DIAGNOSIS, LAboratory

MEDICINE
RB
37
.T63
1978

Todd, James Campbell, 1874-1928.
Clinical diagnosis and management by laboratory methods / [edited by] John Bernard Henry. 16th ed. Philadelphia : Saunders, 1979.
2v. (xxiv, 2107, lxiii p.) : ill. ; 27 cm.
At head of title: Todd-Sanford-Davidsohn.
Includes bibliographies and indexes.

1. Diagnosis, Laboratory.
2. *DIAGNOSIS, LABORATORY I. Sanford, Arthur Hawley, 1882-
II. Davidsohn, Israel, 1895-
III. Henry, John Bernard, 1928-
IV. Title

MiDW-M 30 AUG 79 4884633 EYWMsc 77-82666

QUICK QUIZ #4

DeFeudis, F. V.

MEDICINE
RM
315
.A4
vol. 29

Amino acid neurotransmitters / editors, Francis V. DeFeudis, Paul Mandel. -- New York : Raven Press, c1981.
xxviii, 572 p. : ill. ; 24 cm. -- (Advances in biochemical psychopharmacology ; v. 29)
Includes bibliographical references and index.

1. Neurotransmitters. 2. Amino acids. 3. Neurotransmitter receptors. 4. *Amino acids. 5. *Neuroregulators. I. DeFeudis, F. V. II. Mandel, Paul, 1908- III. Series

MiDW-M 11 SEP 81 7328417 QYWMat 80-5672

Referring to the card above, answer the following questions.

1. What is the title of the book?

2. What is the name of the publisher?

3. What is the call number of the book?

4. What are the subject headings under which you will find this book in the Shiffman Library card catalog?

5. In which section of the card catalog and alphabetized under what letter would you find this card?

QUICK QUIZ #4 continues on the following page!

The proposed Health maintenance organization act of 1972.

KF
3605
R6
1972

ROY, William R

The proposed Health maintenance organization act of 1972, by William R. Roy. Foreword by Paul G. Rogers. [Washington, Science & Health Communications Group, 1972]

vii, 285 p. (Sourcebook series, v.2)

1. Delivery of Health Care--legislation. I. Title. II. Title: Health maintenance organization act of 1972. III. Series: Science & Health

Referring to the catalog card above, answer the following questions.

6. Who is the author of this book?

7. What is the call number of this book?

8. When was this book published?

9. Under what subject heading(s) will there be cards for this book in the Shiffman Library card catalog?

Section 5

Upon completion of this section, the student will be able to select appropriate Medical Subject Headings (MeSH) to identify relevant materials via the subject card catalog.

The words and phrases used as subject headings in the card catalog are selected from a list of predetermined terms. This list is called Medical Subject Headings (MeSH) and a copy of it is kept on the podium next to the card catalog.

A page from MeSH is reprcduced on the following page. Note that only the terms in large capital letters (#1 on the following page) are Medical Subject Headings. Terms in smaller letters are cross-references (#2 on the following page), directing you to "see" or "see under" other MeSH terms. The terms with an X or an XU in front of them (#3 on the following page) are backwards cross-references. For example, if you looked under Armed Forces Personnel, it would be in small capital letters, indicating that it is not a MeSH heading, and it would say "see Military Personnel." Sometimes, as in #4 on the following page, it will say "see related" and then list one or more MeSH headings. These are other MeSH headings that are relevant to the same topic; if you turn to them, you will see that they are in large capital letters too. Terms with "XR" (#5 on the following page) in front of them are backwards "see-related" references.

Identifying the appropriate MeSH headings for a topic is more of an art than a science; but here are several hints to help you. Try inverting terms if you have a multi-word phrase (technology, medical instead of medical technology). Also, try synonyms of the word or related terms that are broader in meaning (or narrower).

MIDTRIMESTER see PREGNANCY TRIMESTER, SECOND
G8.520.769.72[illegible].0

MIDWIFERY
G2.478.676.416
SPEC: SPEC qualif; NURSE MIDWIVES is also available
66; was MIDWIVES 1963-65
X TRADITIONAL BIRTH ATTENDANT

MIGRAINE
C10.228.140.300.937.542 C14.907.253.937.542
C23.888.592.612.429.814.458
X HEMICRANIA

MIGRANTS see TRANSIENTS AND MIGRANTS
M1.920 N1.696.596.797

MIGRATION INHIBITION FACTORS, LEUKOCYTE see LEUKOCYTE MIGRATION INHIBITORY FACTORS
D24.611.632.428

MIGRATION INHIBITION FACTORS, MACROPHAGE see MACROPHAGE MIGRATION INHIBITORY FACTORS
D24.611.632.625

MIKAMYCINS see VIRGINIAMYCINS
D20.85.957

MIKULICZ' DISEASE
C7.465.815.355 C23.205.530

MILIARIA
C17.805.843.492

MILIEU THERAPY
F4.754.864.392+
SPEC qualif
69(67)

MILITARY DENTISTRY
G2.163.592
SPEC: SPEC qualif except /methods; specify country
65

MILITARY HYGIENE
G3.850.670.300
SPEC: SPEC qualif except /methods; specify country

MILITARY MEDICINE
G2.403.458
SPEC: SPEC qualif except /methods; specify country; Manual 28.10
see related
SURVIVAL
WOUNDS AND INJURIES

MILITARY NURSING
G2.478.676.458
SPEC: SPEC qualif except /methods; specify country
X NURSING, MILITARY AND NAVAL

MILITARY PERSONNEL
M1.526.625
for their physiol & diseases use MILITARY MEDICINE; personal only; only /hist /psychol (but consider also the specialties PSYCHOLOGY, MILITARY & MILITARY PSYCHIATRY); specify country; Manual 28.10, 34.21
CATALOG: /geog /form
see related
VETERANS
X ARMED FORCES PERSONNEL

MILITARY PSYCHIATRY
F4.96.544.480 G2.403.642.508
SPEC only: SPEC qualif; not for MENTAL DISORDERS in soldiers, etc.
80; was PSYCHIATRY, MILITARY 1963-79
use MILITARY PSYCHIATRY to search PSYCHIATRY, MILITARY back thru 1966
X PSYCHIATRY, MILITARY

MILITARY PSYCHOLOGY see PSYCHOLOGY, MILITARY
F2.784.754

MILITARY SCIENCE
J1.675+
only /hist; specify country

MILK
A13.622 J1.125.576
J1.341.273.692
IM; coord with source of milk (NIM), as cow's milk = MILK (IM) + CATTLE (NIM), goat's milk = MILK (IM) + GOATS (NIM); only /ad-poi-tox /anal /cytol /drug eff /enzymol /immunol /metab /microbiol /parasitol /physiol /rad eff /secret (consider also LACTATION); includes buttermilk; kefir indexed here; YOGURT is also available
XR INFANT NUTRITION
XR LACTATION

MILK-ALKALI SYNDROME
C18.452.174.451.543
Burnett's syndrome, milk-drinker's syndrome
(65); was see under CALCINOSIS 1975-77
see under HYPERCALCEMIA

MILK EJECTION
G8.520.769.843.506.600
human and animal; only /drug eff /rad eff
(75)
see under LACTATION

MILK FACTOR see MAMMARY CANCER VIRUS
B4.909.574.807.674.441 B4.909.777.737.674.441
B4.909.777.779.674.441

MILK FEVER, ANIMAL see PARTURIENT PARESIS
C22.695

MILK, HUMAN
A12.838.467
only /anal /cytol /drug eff /enzymol /immunol /metab /microbiol /parasitol /physiol /rad eff /secret (consider also LACTATION); human milk banks go here but do not use qualif & do not coord with TISSUE BANKS
XR BREAST FEEDING
XR INFANT NUTRITION
XR LACTATION

MILK OF MAGNESIA see MAGNESIUM HYDROXIDE
D1.455.480 D1.552.539.557.350
D19.316.203.59.578 D19.316.396.562

MILK PROTEINS
D12.776.256.626+
do not use /analogs /defic /physiol
73

MILK SICKNESS see PLANT POISONING
C21.613.755+

MILKER'S NODES
C2.256.743.563
(75)
search POXVIRUS INFECTIONS 1966-74
see under POXVIRUS INFECTIONS

MILKER'S NODES VIRUS see PARAVACCINIA VIRUS
B4.909.204.783.625

MILLET
B6.510.463.480 J1.341.182.452.515
as plant & food; from Cat B do not use /isol /pathogen; from Cat J only /ad-poi-tox /econ /hist /rad eff /stand /supply
(75)
search GRAIN 1966-74
see under GRAIN

MILROY'S DISEASE
C15.604.496.626

MIMAE see ACINETOBACTER
B3.400.699.261

MIMAE INFECTIONS see ACINETOBACTER INFECTIONS
C1.252.22

MIMETIC MUSCLES see FACIAL MUSCLES
A2.633.338

QUICK QUIZ #5

Using the 1982 edition of Medical Subject Headings, answer the following questions.

1. Will any books have "Genetic Carriers" as a subject heading in the Shiffman Medical Library?

   _____

2. What is the best MeSH heading to use to find information on inherited sensory neuropathy?

   _____

3. Identify 3 MeSH headings that will index additional information related to RNA.

   _____

4. What is the appropriate MeSH heading to use to find information on cancer of the larynx?

   _____

5. What is the correct MeSH heading to use to find information on obstruction of arteries in the kidney?

   _____

Section 6

Problem-Solving with Monographs

Upon completion of this section, the student will be able to solve given problems with reference to monographs using the various skills learned in this module.

QUICK QUIZ #6

1. Cunningham on page 1 of his book on immunology quotes a phrase from T.S. Eliot. What is the phrase and is it relevant to this exercise? (Please reshelve this book when you are done.)

2. You are assigned to write a 10 page paper on Klebsiella. Identify 2 sources in the Shiffman Library that would provide adequate information to write this paper.

3. You are looking for a job and want some very basic information about Bellevue Hospital Center in New York City. Will the Hospitals & Health Services Year Book help you?

Section 7

ULOSSOM

Upon completion of this section, the student will be able to identify the library where a given journal article will be found using the Union List of Selected Serials of Michigan.

The Union List of Selected Serials of Michigan (ULOSSOM) is an alphabetic listing by title of periodicals held in the Wayne State University Library System and other university and hospital libraries in this area. ULOSSOM will not only tell you if a particular journal is owned by Shiffman or a neighboring library, but will also tell you which issues are owned of that journal as well. The ULOSSOM List is on microfiche and is available at the microfiche reader near the reference desk on the main floor and near the elevator on the second floor.

This is an example of an entry for a journal in ULOSSOM:

(1) AMERICAN JOURNAL OF MEDICAL TECHNOLOGY.
DETROIT
V. 2--
(2) 1936--
(3) CONTINUES AMERICAN SOCIETY OF CLINICAL TECHNICIAN. BULLETIN.
(4)
MIDEO 37-- 1971--
MIDHF 8-- 1942--
MIDHU 45-- 1979--
MIDMC 44-- 1978--
MIDMH 36-- 1970--
MIDSH 27,29,39-41, 1961-75
MIDW-M 2-36(37-38)39-- 1936--
MIGPSJ 31-32,34-- 1965--
MIMTCS 40-41,43-- 1974--
MIRCO-S 26-- 1960--
MIROW 41-- 1975--
(5)

ULOSSOM provides the following information:

1) the full title of the journal;
2) the date when the journal began publishing;
3) any title change information;
4) a list of libraries owning that journal title; each library has been assigned a letter code; consult the key to these codes that is kept with ULOSSOM; the code for the Shiffman Library is MIDW-M;
5) the specific volumes and issues owned of that journal in each library that holds the title.

QUICK QUIZ #7

Does Shiffman Library own the following journals?

____1. Nigerian Medical Journal, v. 1, 1971.

____2. Ecotoxicology and Environmental Safety, v. 3, 1979.

____3. Blood, current issue.

____4. American Journal of Medical Electronics, v. 10, 1971.

Section 8

Locating Journals

Upon completion of this section, the student will be able to locate given journal titles in the Shiffman Library and complete the missing elements of given citations.

This is a typical citation to a journal article:

> Botz, C.K. "A Salary Survey of Biomedical Technical Personnel." Dimensions in Health Service 1981 Jan;58(1):19-21.

The elements of this citation in the order in which they appear are: author of the article, title of the article, title of the journal, date of publication, volume number of the journal, issue number of the journal, and page numbers of the article.

Journal title which are called the Journal or Proceeding or Bulletin, etc. of some official body are filed under the name of that official body. For example, the Journal of the American Medical Association is filed under "A" for American Medical Association instead of "J" for Journal.

QUICK QUIZ #8

Who is the first author of the following articles? (Please put the journals back on the shelves after you have used them.)

1. The metamorphosis of the medical technologist. Dimensions in Health Service 1981 Mar;58(3):22-23.

   _____

2. Caffeine and the fetus: is trouble brewing? American Journal of Obstetrics and Gynecology 1981 Jul 15;140(6): 607-10.

   _____

3. Penicillin and bacterial wall synthesis. An exercise in molecular pathology. American Journal of Clinical Pathology 52:147-53, Aug. 69.

   _____

Section 9

Index Medicus

Upon completion of this section, the student will be able to complete citations in Index Medicus given authors' names or Medical Subject Headings.

Index Medicus, produced by the National Library of Medicine, indexes approximately 3000 journals covering all aspects of biomedicine. It consists of two main indexes: the index by the names of the authors of articles in the journals, and the index by Medical Subject Headings. Indexes for the current two years are located on the index table in the corner near the reference desk on the main floor; the indexes for earlier years are shelved on the wall directly behind the table.

The citations to individual articles include an abbreviation for the journal title (such as Am J Med Technol). You will need to decipher the abbreviation by looking in List of Journals Indexed in Index Medicus, a copy of which is kept on the podium between Index Medicus and the reference desk.

Articles with titles enclosed in brackets are not in English. Note also the use of subheadings under the MeSH headings, such as Prostate-anatomy and histology, Prostate-enzymology, Prostate-secretion, and so on.

QUICK QUIZ #9

Copy the complete citation from the 1981 Index Medicus for the following articles.

1. An article by EF Mammen, JA Sedensky, and others in the March 1980 issue of Resuscitation.

2. An article on the treatment of hemoptysis with danazol.

3. An article entitled "The diagnostic value of enzymatic and immunological tests in human trichinellosis".

4. An article on the hypotensive principle of Laminaria.

Section 10

Problem-Solving with Journals

Upon completion of this section, the student will be able to solve given problems, with reference to journals, using the various skills learned in this module.

The following problems are designed to help you integrate what you have learned in this module about finding information in journals.

QUICK QUIZ #10

1. Cite three references which could help you write a paper on blood.
   artificial

2. Who was the first author of an article on barbiturate overdose in the July 2, 1982 issue of the Journal of the American Medical Association? (Please reshelve the journal when you are done).

3. Cite 2 recent articles on resistance of Shigella to trimethoprim.

Answers to Quick Quizzes

QQ #1
B.2.M.M.M.B.

QQ #2
7.4.1.5.2.6.3.

QQ #3
3.1.2.2.1.

QQ #4
1. Amino Acid Neurotransmitters. 2. Raven Press. 3. RM 315 .A4 vol. 29. 4. Amino acids, Neuroregulators. 5. Author-Title (Pre-1980, but you wouldn't know that for sure) under "D". 6. William R. Roy. 7. KF 3605 .R6 1972. 8. 1972. 9. Delivery of Health Care - Legislation.

QQ #5
1. No. 2. Neuropathy, Hereditary Sensory. 3. Nissl Bodies. Nucleic Acid Denaturation. Nucleic Acid Hybridization. Repetitive Sequences, Nucleic Acid. Ribosomes. 4. Laryngeal Neoplasms. 5. Renal Artery Obstruction.

QQ #6
1. "Where is the knowledge we have lost in information?" Unfortunately, it does have relevance. 2. Since there are no entries in the card catalog under Klebsiella, you would need to think of broader categories such as Enterobactereaceae or bacteria. Many sources would be adequate for this, such as texts on bacteriology or microbiology. Two examples are: QR46 .T67 1964 Topley and Wilson's Principles of Bacteriology and Immunology. QR82 .E6E3 1972 Edwards, P.R. and W.H. Ewing. Identification of Enterobacteriaceae. 3. No. It is a directory of British hospitals only. You would need the American Hospital Association Guide to the Health Care Field or a similar work.

QQ #7
1. Yes. 2. No. 3. Yes 4. Title was changed to Medical Research Engineering in 1966, but Shiffman does own that volume.

QQ #8
1. V.P. Soni. 2. M.B. Morris. 3. H.B. Anstall.

QQ #9
1. Schuster HP, Long MW, Blair J, Sedensky JA, Mammen, EF: The influence of disseminated intravascular coagulation on renal function after experimental hemorrhagic shock. Resuscitation 1980 Mar;8(1):3-28.
2. Successful treatment of catamenial hemoptysis with danazol. Rosenberg SM, et al. Obstet Gynecol 1981 Jan; 57(1):130-2.

QQ #9 continued
3. The diagnostic value of enzymatic and immunological tests in human trichinellosis. Boczon K, et al. Tropenmed Parasitol 1981 Jun;32(2):109-14.
4. Hypotensive principle of Laminaria and allied seaweeds. Funayama S. et al. Planta Med 1981 Jan;41(1):29-33.

QQ #10
1. Many references under "Plasma Substitutes" in recent years of Index Medicus.
2. MM. McCarron.
3. Sample articles include: Resistance to trimethoprim and other antibiotics in Ontario shigellae (letter) Bannatyne RM, et al Lancet 1980 Feb 23; 1(8615):425-6, and Transferable resistance to trimethoprim in Shigella. Chun D, et al. J Infect Dis 1981 May;143(5):742.

PRE-TEST

1. For the most up-to-date information on salmonella infections, the appropriate source to consult is most likely to be:

_____a.) A general textbook

_____b.) A journal article

_____c.) A dictionary

_____d.) A fellow student

2. Put the following numbers in order as they would appear on a library shelf from left to right, by numbering them from 1 to 4.

_____RC 101 .G31 1982

_____BF 93 .A23 1965

_____RC 101 .G4 1982

_____RT 51 .M7 1973

3. If you were looking for a book written by Leslie T. Morton, which of the following should you consult?

_____a.) Author-Title section of the card catalog

_____b.) Subject section of the card catalog

_____c.) The want ads in the Detroit Free Press

_____d.) A Ouija board

4. Which of the following items would not be included on a catalog card?

_____a.) Call number of the book

_____b.) Publisher of the book

_____c.) Title of the book

_____d.) Price of the book

5. In using the thesaurus to medical literature, Medical Subject Headings, you noted the following entry:

BACTERIAL SENSITIVITY TESTS see MICROBIAL SENSITIVITY TESTS

Under which heading would you look to find information on bacterial sensitivity tests?

_____a.) Bacterial sensitivity tests

_____b.) Microbial sensitivity tests

c.) Sensitivity tests, bacterial

d.) Sensitivity tests, microbial

RANDOM NUMBER_____

6. If you read that Shiffman Library owns American Journal of Medical Technology, v. 26-- , 1960--, which of the following issues would you expect not to find at Shiffman?

_____a.) v. 27, no. 6

_____b.) May, 1978

_____c.) v. 24, no. 1

_____d.) July, 1982

7-9. Using the following citation, match the appropriate component with its corresponding definition.

Hoyer, L.W. "The effect of thrombin on human factor VIII." Journal of Laboratory and Clinical Medicine 1981 Jan; 97(1): 50-64.

_____Volume number(s) of the journal	a.) (1)
_____Issue number(s) of the journal	b.) 50-64
_____Page(s) journal article can be found on	c.) 97

10. Which of the following types of information could not be found in Index Medicus, an index to medical periodical literature?

_____a.) The title of an article by M. Levine in the 1980 volume of the Journal of Virology.

_____b.) A textbook on microbiology.

_____c.) An article on chemically induced hypoglycemia.

_____d.) A review article on Reye's Syndrome.

POST-TEST

RANDOM NUMBER_____

1. For the most up-to-date information on sudden infant death, the appropriate source to consult is most likely to be:

   _____a.) A general textbook of medicine

   _____b.) A dictionary

   _____c.) A textbook of pediatrics

   _____d.) A journal article

2. Put the following numbers in order as they would appear on a library shelf from left to right, by numbering them from 1 to 4.

   _____RD 89 .A35 1981

   _____RD 89 .C35 1973

   _____RD 89 .C3 1965

   _____RD 89 .A1 1972

3. If you were looking for a book written by David W. Smith, which of the following should you consult?

   _____a.) MEDLINE

   _____b.) Index Medicus

   _____c.) Subject section of the card catalog

   _____d.) Author-Title section of the card catalog

4. Which of the following items would not be included on a catalog card?

   _____a.) Which issues of a journal the library owns are missing

   _____b.) Call number of the book

   _____c.) Date of publication of the book

   _____d.) Subject headings under which the book is listed in the card catalog.

5. In using the thesaurus to medical literature, Medical Subject Headings, you noted the following entry:

   SUBMANDIBULAR GLAND DISEASES see under SALIVARY GLAND DISEASES

   Under which heading would you look to find information on submandibular gland diseases?

   _____a.) Neither term

   _____b.) Both terms

   _____c.) Salivary gland diseases

   _____d.) Submandibular gland diseases

6. If you read that Shiffman owns American Journal of Medical Technology, v. 4-16, 1956-1968, which of the following issues would you expect not to find at Shiffman?

_____a.) v. 7, no. 2

_____b.) June, 1959

_____c.) v. 17, no. 3

_____d.) April, 1957

7-9. Using the following citation, match the appropriate component with its corresponding definition.

Ferrier, B.M. "Influence of oxytocin on human memory processes." Life Sciences 1980 Dec; 27(2): 2311-7.

_____Volume number(s) of the journal	a.) 2311-7
_____Issue number(s) of the journal	b.) (2)
_____Page(s) journal article can be found on	c.) 27

10. Which of the following types of information could not be found in Index Medicus, an index to medical periodical literature?

_____a.) The title of an article by J. Reynolds in the 1981 volume of the Journal of Laboratory and Clinical Medicine.

_____b.) The title of a book by S. Bergsma.

_____c.) An article on chemically induced hypoglycemia.

_____d.) A review article an anorexia nervosa.